ASTM Bulletins—1951

Subject Index Papers, Reports, and Articles*

A

Air Entrainment
air bubble size distribution
aerated concrete, No. 177, October, p. 56 (TP220).
Alloys
ferrous—bibliography, No. 174, May, p. 66 (TP136).
non-ferrous—bibliography, No. 174, May, p. 66 (TP136).
Antifreeze
freezing point, No. 172, February, p. 43 (TP57).
Asphalt Paving
design and control, No. 171, January, p. 39 (TP1). Discussion, p. 45 (TP7).
Awards
of Merit, 1951, No. 175, July, p. 16.
honorary membership, No. 175, July, p. 15.
student membership, No. 171, January, p. 26.

B

Bearing Strength
plastic laminates, No. 175, July, p. 71 (TP161).
Bend Testing
fabrics and thin plastics, No. 176, September, p. 52 (TP 190).
steel, No. 177, October, p. 36 (TP200).
Bibliographies
ferrous and non-ferrous alloys, No. 174, May, p. 66 (TP136).
special publications, No. 173, April, p. 21.
Binder Components
floor tile
color index, No. 178, December, p. 62 (TP256).
Bulletin
Bulletin enters 30th year, No. 171, January, p. 24.

C

Charpy Impact
see Impact Testing.
Coatings, Strippable
for acrylic plastics, No. 178, December, p. 59 (TP253).
Color Index
floor tile binders, No. 178, December, p. 62 (TP256).
Compression Testing
strain rate effect
plastics, No. 172, February, p. 29 (TP-43).
Concrete
aerated, No. 177, October, p. 56 (TP220).
prestressed beam test, No. 177, October, p. 61 (TP225).
Concrete Aggregates
constituents of natural mineral aggregates, No. 171, January, p. 32.
organic impurities
compressive strength of mortars, No. 178, December, p. 35 (TP229).
standard mortar test, No. 178, December, p. 44 (TP238).
Copper
electro analysis, No. 174, May, p. 60 (TP-130). Discussion, No. 177, October, p. 39 (TP203).
Corrosion
ASTM test sites, No. 172, February, p. 17; No. 176, September, p. 12.
Cracking Sensitivity
polyethylene polymers, No. 178, December, p. 47 (TP241). Discussion, p. 50 (TP244).
Creep
effective gage length, No. 171, January, p. 60 (TP22).
tension, No. 171, January, p. 57 (TP19).

D

Dampproofing
cement base paints, No. 171, January, p. 53 (TP15). Discussion, p. 56 (TP18).
Density
polymers, No. 175, July, p. 75 (TP165).
Dielectric Strength
apparatus for elevated temperature tests, No. 171, January, p. 63 (TP25).
Diode standard, No. 171, January, p. 66 (TP28).
Dynamic Modulus
elastomers, No. 177, October, p. 45 (TP-209).

E

Electrical Insulating Tapes
fungus effect on tensile strength, No. 174, May, p. 67 (TP137).
Electro Analysis
copper, No. 174, May, p. 60 (TP130). Discussion, No. 177, October, p. 39 (TP203).
Explosion Test
welded steel structures, No. 172, February, p. 53 (TP67).

F

Fatigue Testing
electroplating effect, No. 177, October, p. 13.
elevated temperature
effect of dynamic stress, No. 177, October, p. 38 (TP202).
resonant-type equipment, No. 175, July, p. 60 (TP150); discussion, p. 67 (TP-157).
Figure of Merit
oxide-coated cathodes, No. 171, January, p. 66 (TP28).
Film Thickness
paint, No. 172, February, p. 35 (TP49).
Finances
financial highlights, No. 172, February, p. 10.
Floor Tile
color index, No. 178, December, p. 62 (TP256).
Fogging Properties
organic materials, No. 172, February, p. 40 (TP54).
Fomes Pini
decayed Douglas fir, No. 173, April, p. 52 (TP106). Discussion, No. 177, October, p. 40 (TP204).
Fungus Growth
insulating tapes
effect on tensile strength No. 174, May, p. 67 (TP137).

G

Glass Spheres
roundness testing, No. 174, May, p. 72 (TP142).

H

Hand
fiber properties, No. 176, September, p. 46 (TP184).
Hardness Testing
micro-hardness, No. 176, September, p. 37 (TP175).
Hiding Power
paint, No. 175, July, p. 68 (TP158).
High Temperature Service
metallurgical development, No. 174, May, p. 31.
Hydrocarbons
density measurement—abstract, No. 171, January, p. 34.

I

Impact Testing
plastics, No. 173, April, p. 48 (TP102).
miniature specimens, No. 177, October, p. 48 (TP212).
stainless steel
exposure to liquid nitrogen, No. 177, October, p. 35 (TP199).

L

Laminates
plastics
bearing strength, No. 175, July, p. 71 (TP161).
thermal properties, No. 174, May, p. 54 (TP124).
wood—Discussion, No. 173, April, p. 58 (TP112).

M

Meetings
first ISO meeting, No. 171, January, p. 32.
fiftieth anniversary meeting, No. 177, October, p. 12.
fifty-fourth annual meeting, No. 172, February, p. 5; No. 173, April, p. 13; No. 174, May, p. 5; No. 175, July, p. 5.
1951 Spring meeting, No. 173, April, p. 8.
Membership
student prize award established, No. 171, January, p. 26.
honorary memberships awarded, No. 175, July, p. 15.
Metallurgical Board
national board organized, No. 174, May, p. 23.
Mooney Viscometer
temperature measurement of rubber, No. 176, September, p. 60 (TP198).

N

National Defense
balancing the economy—Nathaniel Knowles, No. 175, July, p. 43.
Nomogram
stiffness, elastomer, No. 173, April, p. 59 (TP113).

P

Paint
cement base, No. 171, January, p. 53 (TP15). Discussion, p. 56 (TP18).
film thickness, No. 172, February, p. 35 (TP49).
hiding power, No. 175, July, p. 68 (TP158).
traffic paint
dirt-retention, No. 176, September, p. 44 (TP182).
reflectance, No. 173, April, p. 44 (TP98).
steel cleaning, No. 178, December, p. 50 (TP244).
Penetrometer
electrical timing device
bitumen testing, No. 175, July, p. 81 (TP171).
Plastics
bending and stiffness, No. 176, September, p. 52 (TP190).
impact testing, No. 173, April, p. 48 (TP102).
miniature specimens, No. 177, October, p. 48 (TP212).
bearing strength, laminated No. 175, July, p. 71 (TP161).
stiffness nomogram, No. 173, April, p. 59 (TP113).
strain rate effect, No. 172, February, p. 29 (TP43).
stress cracking of polyethylene—discussion, No. 171, January, p. 62 (TP24).
strippable protective coatings, No. 178, December, p. 59 (TP253).

* Reprints of this Subject and Author Index are available to members on request.

thermal properties, No. 174, May, p. 54 (TP124).
weathering, No. 173, April, p. 31 (TP85). Discussion, p. 43 (TP97).

Polymers
density, apparent, No. 175, July, p. 75 (TP165).
determination of cracking sensitivity, No. 178, December, p. 47 (TP241). Discussion, p. 50 (TP244).

President's Message, No. 171, January, p. 25.

President's Talks
annual address, No. 175, July, p. 55 (TP145).
Progress in Forest Products Research, No. 174, May, p. 45 (TP115).

Programs
provisional program, No. 174, May, p. 8.

Publications
1951 ASTM publications, No. 171, January, p. 19; No. 172, February, p. 8; No. 173, April, p. 17; No. 174, May, p. 21; No. 176, September, p. 7; No. 177, October, p. 8.

R

Radioactive Tracers
wear testing, No. 172, February, p. 64 (TP78).

Radiography
detection methods, No. 172, February, p. 66 (TP80).
natural and synthetic rubber identification, No. 171, January, p. 71 (TP33).

Resilience
fiber properties, No. 176, September, p. 46 (TP184).

Resins, Floor Tile
color index, No. 178, December, p. 62 (TP256).

Roundness Testing
glass spheres, No. 174, May, p. 72 (TP142).

Rubber
dynamic modulus, No. 177, October, p. 45 (TP209).
natural
X-ray diffraction identification, No. 171, January, p. 71 (TP33).
synthetic
X-ray diffraction identification, No. 171, January, p. 71 (TP33).
temperature measurement, No. 176, September, p. 60 (TP198).

S

Sand
organic impurities
compressive strength of mortars, No. 178, December, p. 35 (TP229).

Shearing Resistance
soils, No. 176, September, p. 55 (TP193).

Soils
de-aired
extruded specimens, No. 177, October, p. 51 (TP215).
shearing resistance
effect of particle interlocking, No. 176, September, p. 55 (TP193).

Specific Gravity
gradient column, No. 175, July, p. 78 (TP168).

Standards and Standardization
actions on standards, No. 171, January, p. 18; No. 172, February, p. 7; No. 173, April, p. 15; No. 175, July, p. 33; No. 176, September, pp. 5, 18; No. 177, October, p. 5.
emergency specifications, No. 175, July, p. 35; No. 177, October, p. 27.
how big is an inch, No. 174, May, p. 26.
principles of specifications, No. 174, May, p. 38.
reinforced concrete chimney, No. 174, May, p. 37.
welded spheres, No. 175, July, p. 85.

Steel
bend test, No. 177, October, p. 36 (TP200).
cleaning of test panels for paint, No. 178, December, p. 50 (TP244).
stainless
impact after exposure to liquid nitrogen, No. 177, October, p. 35 (TP199).
columbium and tantalum content, No. 177, October, p. 17.
welded structures
explosion tests, No. 172, February, p. 53 (TP67).

Stiffness
fabrics and thin plastics, No. 176, September, p. 52 (TP190).
textile materials, No. 176, September, p. 49 (TP187).

Stress cracking
polyethylene, No. 171, January, p. 62 (TP24).

Stress-Rupture
effective gage length, No. 171, January, p. 60 (TP22).

T

Tension Testing
low temperature apparatus, No. 177, October, p. 41 (TP205).
strain rate effect
plastics, No. 172, February, p. 29 (TP43).

Textile Materials
bending, No. 176, September, p. 52 (TP190).
fiber properties, No. 176, September, p. 46 (TP184).
stiffness, No. 176, September, p. 49 (TP187); p. 52 (TP190).
synthetic fibers—abstracts, No. 175, July, p. 40.

Thermal Conductivity
powdered materials, No. 172, February, p. 47 (TP61).

Thermal Insulating Materials
specific heat—Discussion, No. 173, April, p. 50 (TP104).
1951 Spring meeting, No. 173, April, p. 8.

Temperature Measurement
rubber
Mooney viscometer, No. 176, September, p. 60 (TP 198).

V

Vibration
freight cars, No. 173, April, p. 46 (TP100).

W

Waterproofing
surface waterproofers, No. 171, January, p. 48 (TP10). Discussion. p. 52 (TP14).

Wear Testing
radioactive tracers, No. 172, February, p. 64 (TP78).

Weathering
plastics, No. 173, April, p. 31 (TP85). Discussion, p. 43 (TP97).

Welded Structures
explosion test, No. 172, February, p. 53 (TP67).

Wood
decayed Douglas fir, No. 173, April, p. 52 (TP106). Discussion, No. 177, October, p. 40 (TP204).
laminates—Discussion, No. 173, April, p. 58 (TP112).
research, No. 174, May, p. 45 (TP115).

Wool Additives
determination by specific gravity gradient column, No. 175, July, p. 78 (TP168).

X

X-ray
see radiography

Index to Authors of Technical Papers

1951 ASTM Bulletins

A

Abbott, N. J.
The Measurement of Stiffness in Textile Fabrics, No. 176, September, p. 49 (TP187).

Adams, C. H.
The Izod Impact Test—A Study of the Sources of Variability When Testing Styrene and Other Plastic Materials by ASTM D 256 – 47 T, Method A, No. 173, April, p. 48 (TP102).

Anderegg, F. O.
Results on Testing Surface Waterproofings, No. 171, January, p. 48 (TP10).

Armstrong, A. A., Jr.
See Schoenborn, E. M. Armstrong, A. A., Jr., and Beatty, K. O., Jr.

Armstrong, T. N., and Miller, A. J.
Impact Properties of Stainless Steel and 9 Per Cent Nickel Steel After Exposure Under Stress to Liquid Nitrogen, No. 177, October, p. 35 (TP199).

Ashman, G. W.
See Byerly, F. S., Baumann, F. H., Diefenderfer, H. H., and Ashman, G. W.

B

Baldt, J. H.
See Hebeler, H. H., Kolb, H. J., Stillman, J. W., and Baldt, J. H.

Ball, William P.
See Taylor, Rolla H., and Ball, William P.

Baumann, F. H.
See Byerly, F. S., Baumann, F. H., Diefenderfer, H. H., and Ashman, G. W.

Beatty, K. O., Jr.
See Schoenborn, E. M., Armstrong, A. A., Jr., and Beatty, K. O., Jr.

Bergsman, E. Borje
Some Recent Observations in Micro-Hardness Testing, No. 176, July, p. 37 (TP175).

Berk, Sigmund and Teitell, Leonard
Effect of Fungus Growth on the Tensile Strength of Pressure-Sensitive Electrical Insulating Tapes, No. 174, May, p. 67 (TP 137).

Bernstein, F.
See Goldspiel, S., and Bernstein, F.

Blevins, T. B., and DeFries, M. G.
A Nomogram for Calculating the Stiffness of Elastomers, No. 173, April, p. 59 (TP113).

Bloem, Delmar L.
Effect of Certain Variables on Results of Standard Mortar Test of Fine Aggregates, No. 178, December, p. 44 (TP238).

Breen, John E.
Effect of Amplitude of Dynamic Stress on High Temperature Fatigue Life, No. 177, October, p. 38 (TP202).

Briggs, Thomas H., and Richard C. D., Jr.
Development and Use of a D-C. Emission Figure of Merit for Oxide-Coated Cathodes, No. 171, January, p. 66 (TP28).

Buffum, D. C.
See Jaffe, L. C., and Buffum, D. C.

Byerly, F. S., Baumann, F. H., Diefenderfer, H. H., and Ashman, G. W.
A Laboratory Method of Test for No-Dirt-Retention Time of Traffic Paints, No. 176, September, p. 44 (TP 182).

C

Cummings, J. D.
See Ellis, W. C., and Cummings, J. D.

D

Dawson, Raymond F.
See Matlock, Hudson, Jr., Fenske, Carl W., and Dawson, Raymond F.

DeFries, M. G.
See Blevins, T. B., and DeFries, M. G.

Diefenderfer, H. H.
See Byerly, F. S., Baumann, F. H., Diefenderfer, H. H., and Ashman, G. W.

Dolan, Thomas J.
Electrically Excited Resonant-Type Fatigue Testing Equipment, No. 175 July, p. 60 (TP150).

Dunn, E. J., Jr.
Film Thickness Measurements, No. 172, February, p. 35 (TP49).

E

Ellis, W. C., and Cummings, J. D.
Creep Test Methods for Determining Cracking Sensitivity of Polyethylene Polymers, No. 177, December, p. 47 (TP241).

F

Fenske, Carl W.
See Matlock, Hudson, Jr., Fenske, Carl W., and Dawson, Raymond F.

Finley, G. S., Morrison, H. L., and Ragan, H. S.
A Test of a Prestressed Concrete Beam, No. 177, October, p. 61 (TP225).

Frankel, L. P., and Radcliffe, C. W.
Bearing Strength of Laminated Plastics, No. 175, July, p. 71 (TP161).

Frisch, David H., and Levin, Jules S.
A Mechanical Wear Test Using Fission Fragments, No. 172, February, p. 64 (TP78).

G

Girton, W. Z., and Potter, J. H.
Apparatus and Technique for Measuring Thermal Conductivity of Powdered Material, No. 172, February, p. 47 (TP61).

Goldspiel, S., and Bernstein, F.
Application of X-ray Diffraction Methods to the Identification of Natural and Synthetic Rubbers, No. 171, January, p. 71 (TP33).

Grinnell, W. W.
See Williams, J. L., and Grinnell, W. W.

Guins, S. G., and Kell, J. A.
Vibrations in Railroad Freight Cars, No. 173, April, p. 46 (TP100).

H

Hand, W., and Winans, R. R.
An Apparatus for Measuring Dielectric Strength at Elevated Temperatures, No. 171, January, p. 63 (TP 25).

Hastings, Carlton H.
An Evaluation of Radiography with Particular Emphasis on Detection Methods, No. 172, February, p. 66 (TP80).

Hebeler, H. H., Kolb, H. J., Stillman, J. W., and Baldt, J. H.
An Improved Electronic Flexometer for Bending Analysis and Stiffness Studies of Fabrics and Thin Plastics, No. 176, September, p. 52 (TP190).

Holler, Albert C.
Sampling of Ferrous and Non-Ferrous Alloys—A Bibliography, No. 174, May, p. 66 (TP136).

Holmes, B. M.
An Electric Timing and Operating Mechanism for a Bitumen Testing Penetrometer, No. 175, July, p. 81 (TP171).

Hough, B. K.
An Analysis of the Effect of Particle Interlocking on the Strength of Cohesionless Soil, No. 176, September, p. 55 (TP193).

Howard, F. L.
See Mallonee, R. E., and Howard, F. L.

Hsiao, C. C., and Sauer, J. A.
Effect of Strain Rate on the Tensile and Compressive Stress-Strain Properties of Polystyrene, No. 172, February, p. 29 (TP43).

Hu, L. W.
See Marin, Joseph, and Hu, L. W.

J

Jaffe, L. D., and Buffum, D. C.
Reproducibility of Bend Test for High Hardness Steels, No. 177, October, p. 36 (TP200).

K

Keeley, Armand E.
Roundness Testing of Glass Spheres, No. 174, May, p. 72 (TP142).

Kell, J. A.
See Guins, S. G., and Kell, J. A.

Kinsey, H. V.
An Evaluation of the Effective Gage-Length Equivalent of the Fillet and Shoulder of the Gage Length Portion of a Tension Test Bar Under Creep and Stress-Rupture Conditions, No. 171, January, p. 60 (TP22).

Klima, Stanley J.
See Marchese, Vincent J., and Klima, Stanley J.

Kolb, H. J.
See Hebeler, H. H., Kolb, H. J., Stillman, J. W., and Baldt, J. H.

L

Levin, Jules S.
See Frisch, David H., and Levin Jules S.

Lord, G. W., and Willis, T. F.
Calculation of Air Bubble Size Distribution from Results of a Rosiwal Traverse of Aerated Concrete, No. 177, October, p. 56 (TP220).

M

McFadden, Gayle, and Ricketts, Walter C.
Corps of Engineers' Method for Design and Control of Asphalt Paving Mixtures, No. 171, January, p. 39 (TP1)

Machlowitz, Roy A.
See Pfleiderer, Howard G., and Machlowitz, Roy A.

Mallonee, R. E., and Howard, F. L.
The Determination of Freezing Point of Engine Antifreeze, No. 172, February, p. 43 (TP57).

Marchese, Vincent J., and Klima, Stanley, J.
A Test Method for Determining Fogging Properties of Organic Materials, No. 172, February, p. 40 (TP54).

Marin, Joseph, and Hu, L. W.
Interpretation of Tension Creep-Time Relations, No. 171, January, p. 57 (TP19).

Markwardt, L. J.
"An Idea Whose Time Had Come," No. 175, July, p. 55 (TP145).
Highlights of Progress in Forest Products Research, No. 174, May, p. 45 (TP115).

Markwood, W. H., Jr.
See Woodham, Howard W., Wirick, Max G., and Markwood, W. H., Jr.

Mather, Bryant
Tests of Fine Aggregate for Organic Impurities and Compressive Strength in Mortars, No. 178, December, p. 35 (TP229).

Matlock, Hudson, Jr., Fenske, Carl W., and Dawson, Raymond F.
De-aired, Extruded Soil Specimens for Research and for Evaluation of Test Procedures, No. 177, October, p. 51 (TP215).

Mikhalapov, G. S.
Direct Explosion Test to Evaluate Load-Carrying Capacity of Welded Steel Structures, No. 172, February, p. 53 (TP67).

Miller, A. J.
See Armstrong, T. N., and Miller, A. J.

Morrison, H. L.
See Finley, G. S., Morrison, H. L., and Ragan, H. S.

Mosborg, Robert J.
Apparatus for Low-Temperature Tension Tests of Metals, No. 177, October, p. 41 (TP205).

P

Painter, G. W.
The Measurement of the Dynamic Modulus of Elastomers by a Vector Subtraction Method, No. 177, October, p. 45 (TP209).

Pfleiderer, Howard G., and Machlowitz, Roy A.
Evaluation of Strippable Protective Coatings for Acrylic Plastics, No. 178, December, p. 59 (TP253).

Potter, J. H.
See Girton, W. Z., and Potter J. H.

R

Ragan, H. S.
See Finley, G. S., Morrison, H. L. and Ragan, H. S.

Radcliffe, C. W.
See Frankel, L. P., and Radcliffe, C. W.

Ray, L. G.
Fiber Properties Related to Fabric Resilience and Hand, No. 176, September, p. 46 (TP184).

Reeves, B. A.
A "Color Index" for Floor Tile Resins, No. 178, December, p. 62 (TP256).

Rice, Thomas
Steel Test Panels for Paint, Revision of D 609 Preparation of Steel Panels for Testing Paint, Varnish, Lacquer and Related Products, No. 177, December, p. 50 (TP244).

Richard, C. D., Jr.
See Briggs, Thomas H., and Richard, C. D., Jr.

Ricketts, Walter C.
See McFadden, Gayle, and Ricketts, Walter C.

S

Sauer, J. A.
See Hsiao, C. C., and Sauer, J. A.

Schoenborn, E. M., Armstrong, A. A., Jr., and Beatty, K. O., Jr.
Thermal Properties of Certain Laminated Plastics, No. 174, May, p. 54 (TP124).

Scofield, Elizabeth R.
See Stock, Charles R., and Scofield, Elizabeth R.

Shelburne, Tilton E.
Comparison of Reflectance Readings of Traffic Paints, No. 173, April, p. 44 (TP98).

Skowronski, S.
Electro Analysis of Copper, No. 174, May, p. 60 (TP130).

Sprugeon, William M.
Testing Cement Base Paints and Dampproofers, No. 171, January, p. 53 (TP15).

Stark, H. J.
See Yustein, S. E., Winans, R. R., and Stark, H. J.

Stillinger, J. R.
Some Strength and Related Properties of Old-Growth Douglas Fir Decayed by *Fomes Pini*, No. 173, April, p. 52 (TP-106).

Stillman, J. W.
See Hebeler, H. H., Kolb, H. J., Stillman, J. W., and Baldt, J. H.

Stock, Charles R., and Scofield, Elizabeth R.
Application of the Specific Gravity Gradient Column to the Quantitative Determination of Additives in a Base Material, No. 175, July, p. 78 (TP168).

Switzer, M. H.
A Suggested Method of Test for Hiding Power of Paints, No. 175, July, p. 68 (TP158).

T

Taylor, Rolla H., and Ball, William P.
Temperature Measurements in the Mooney Viscometer, No. 176, September, p. 60 (TP198).

Teitell, Leonard
See Berk, Sigmund and Teitell, Leonard.

W

Williams, J. L., and Grinnell, W. W.
Bulk Factor and Apparent Density of Granular Polymers, No. 175, July, p. 75 (TP165).

Willis, T. F.
See Lord, G. W., and Willis, T. F.

Winans, R. R.
See Hand, W., and Winans, R. R.; Yustein, S. E., Winans, R. R., and Stark, H. J.

Wirick, Max. G.
See Woodham, Howard W., Wirick, Max G., and Markwood, W. H., Jr.

Woodham, Howard W., Wirick, Max G., and Markwood, W. H., Jr.
An Impact Test for Miniature Plastics Specimens, No. 177, October, p. 48 (TP212).

Y

Yustein, S. E., Winans, R. R., and Stark, H. J.
Outdoor Weather Aging of Plastics Under Various Climatological Conditions, No. 173, February, p. 31 (TP85).